

HEWLETT-PACKARD COMPANY  
• Intellectual Property Administration  
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Fort Collins, Colorado 80527-2400

2841-4  
PATENT APPLICATION

ATTORNEY DOCKET NO. 10015588-1

7.24.2

O I P E  
JUL 17 2002  
U.S. PATENT & TRADEMARK OFFICE  
INVENTOR(S)

IN THE  
UNITED STATES PATENT AND TRADEMARK OFFICE

Inventor(s): Jeffrey L. Deeney  
Application No.: 09/992,864

Confirmation No.:

Filing Date: 11/16/01

Examiner:

Title: METHOD AND APPARATUS FOR SUPPORTING CIRCUIT COMPONENT HAVING SOLDER COLUMN ARRAY INTERCONNECTS USING INTERPOSED SUPPORT SHIMS

Group Art Unit:

COMMISSIONER FOR PATENTS

Washington, D.C. 20231

SUPPLEMENTAL  
INFORMATION DISCLOSURE STATEMENT

Sir:

This Information Disclosure Statement is submitted:

- (X) under 37 CFR 1.97(b), or  
(Within three months of filing national application; or date of entry of national application; or before mailing date of first office action on the merits; whichever occurs last)
- ( ) under 37 CFR 1.97 (c) together with either a:  
( ) Statement under 37 CFR 1.97(e), or  
( ) a \$180.00 fee under 37 CFR 1.17(p), or  
(After the CFR 1.97 (b) time period, but before final action or notice of allowance, whichever occurs first)
- ( ) under 37 CFR 1.97 (d) together with a:  
( ) Statement under 37 CFR 1.97(e), and  
( ) a petition under 37 CFR 1.97(d)(2), and  
( ) a \$180.00 petition fee set forth in 37 CFR 1.17(p).  
(Filed after final action or notice of allowance, whichever occurs first, but before payment of the issue fee)

Please charge to Deposit Account 08-2025 the sum of \$0.00. At any time during the pendency of this application, please charge any fees required or credit any overpayment to Deposit Account 08-2025 pursuant to 37 CFR 1.25.

(X) Applicant(s) submit herewith Form PTO 1449 - Information Disclosure Citation together with copies, of patents, publications or other information of which applicant(s) are aware, which applicant(s) believe(s) may be material to the examination of this application and for which there may be a duty to disclose in accordance with 37 CFR 1.56.

( ) A concise explanation of the relevance of foreign language patents, foreign language publications and other foreign language information listed on PTO Form 1449, as presently understood by the individual(s) designated in 37 CFR 1.56 (c) most knowledgeable about the content is given on the attached sheet, or where a foreign language patent is cited in a search report or other action by a foreign patent office in a counterpart foreign application, an English language version of the search report or action which indicates the degree of relevance found by the foreign office is listed on form PTO 1449 and is enclosed herewith.

It is requested that the information disclosed herein be made of record in this application.

(X) I hereby certify that this correspondence is being deposited with the United States Postal Service as first class mail in an envelope addressed to: Commissioner for Patents, Washington, D.C. 20231. Date of Deposit: 7-1-02  
OR

( ) I hereby certify that this paper is being transmitted to the Patent and Trademark Office facsimile number \_\_\_\_\_ on \_\_\_\_\_

Number of pages:

Typed Name: Jennifer Yapo

Signature: Jennifer Yapo

Respectfully submitted,

Jeffrey L. Deeney

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Date: 7-1-02

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## PATENT APPLICATION

Sheet 1 of 1

FORM PTO-1449

LIST OF PATENTS AND PUBLICATIONS FOR  
APPLICANT'S INFORMATION DISCLOSURE

STATEMENT

TRADEMARK OFFICE

(Use several sheets if necessary)

JUL 17 2002

2010

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APPLICATION NO.

09/992,864

CONFIRMATION NO.

APPLICANT

Jeffrey L. Deeney

FILING DATE

GROUP

11/16/01

## REFERENCE DESIGNATION

## U.S. PATENT DOCUMENTS

EXAMINER INITIAL	DOCUMENT NUMBER	PUBLICATION DATE	NAME	Pages, Columns, Lines Where Relevant Passages or Figures Appear
1A	4,545,610	10/08/1985	Lakritz et al.	
1B	5,222,014	06/22/1993	Paul T. Lin	
1C	5,541,450	07/30/1996	Jones et al.	
1D	5,805,427	09/08/1998	Paul R. Hoffman	
1E				
1F				
1G				
1H				
1I				
1J				
1K				

## FOREIGN PATENT DOCUMENTS

	DOCUMENT NUMBER	PUBLICATION DATE	NAME OF PATENTEE OR APPLICANT	Pages/Columns/Lines Where Relevant Passages/Figures Appear	Check if Translation attached
1L					
1M					
1N					
1O					
1P					

## OTHER REFERENCES (including Author, Title, Date, Pertinent Pages, etc.)

1Q	
1R	
1S	

EXAMINER

DATE CONSIDERED